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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

April 21, 2014

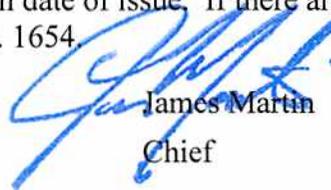
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-5900077, issued to CHESAPEAKE APPALACHIA, L.L.C., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: 805409  
Farm Name: FIRST CENTURY BANK, INC.  
**API Well Number: 47-5900077**  
**Permit Type: Plugging**  
Date Issued: 04/21/2014

**Promoting a healthy environment.**

## PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

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### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil  / Gas  / Liquid injection  / Waste disposal   
(If "Gas, Production  or Underground storage  ) Deep  / Shallow
- 5) Location: Elevation 1132' Watershed Upper Honey Brnach of Jennie Creek  
District Kermit County Mingo Quadrangle Wilsondale, WV 7.5'
- 6) Well Operator Chesapeake Appalachia, L.L.C. 7) Designated Agent Eric B. Giles  
Address P.O. Box 18496 Address P. O. Box 6070  
Oklahoma City, OK 73154-0496 Charleston, WV 25362
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Jeremy James Name \_\_\_\_\_  
Address P. O. Box 147 Address \_\_\_\_\_  
Ona, WV 25545

10) Work Order: The work order for the manner of plugging this well is as follows:

(SEE ATTACHED PLUGGING PROCEDURE)

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WV Department of  
Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector



Date

4-10-14

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WV Department of  
Environmental Protection

## 805409 P&amp;A Procedure

- 1) Prepare road and location, MIRU Service Rig
- 2) RIH and check TD with tools at approximately 1255'
- 3) Attempt to pull tubing and packer. If unsuccessful, cut tubing at free-point (approximately 1230') and pull.
- 4) Run W.S. to 1250', load hole with gel
- 5) Spot 100' cement plug 1250'-1150', pull W.S.
- 6) Attempt to pull 8 1/4" casing (whether successful or not, run W.S. to 1130', spot 100' cement plug 1130'-1030')
- 7) If attempt to pull 8 1/4" was unsuccessful, then cut 8 1/4" at free-point (approximately 900') and pull
- 8) Run or pull W.S. to 900', load hole with gel
- 9) Spot 150' cement plug 900'-750', pull W.S. to 450'
- 10) Spot 100' cement plug 450'-350', pull W.S.
- 11) Attempt to pull 10"
  - A) If successful
    - a) Run W.S. to 330', load hole with gel
    - b) Spot 100' cement plug 330'-230'
    - c) Proceed to step 12
  - B) If unsuccessful
    - a) Rip holes in 10" at approximately 300' and 275'
    - b) Run W.S. to 345'
    - c) Spot 100' cement plug 345'-245', pull W.S.
    - d) Cut 10' at free-point (approximately 150') and pull
    - e) Proceed to step 12
- 12) Run W.S. to 150', spot 150' cement plug 150' – surface
- 13) Pull W.S. and top off with cement
- 14) Erect monument and reclaim as prescribed by law



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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

*Navigation*

WELL RECORD

Permit No. MIN-77

Oil or Gas Well. Gas

Company United Fuel Gas Company  
 Address P. O. BOX 1273, Charleston, W. Va.  
 Farm Central Trust Co. #13 Acres 6,852.4  
 Location (waters) Jennie Creek  
 Well No. 5409 Elev. 1150 Topo  
 District Harvey County Mingo  
 The surface of tract is owned in fee by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Mineral rights are owned by Central Trust Co.  
 Address Cincinnati, Ohio  
 Drilling commenced 7-12-45  
 Drilling completed 12-30-45  
 Date Shot Not Shot From \_\_\_\_\_ To \_\_\_\_\_  
 With \_\_\_\_\_  
 Open Flow /10ths Water in \_\_\_\_\_ Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
 Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
18			
10		326'	Size of
8 1/4		1076'	
6 3/16			Depth set
8			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Salt Sand			786	1010	Gas	952	
Slate			1010	1067			
Maxon Sand			1067	1133			
Slate & shells			1133	1200			
Sand			1200	1215	Gas	1200-1207	
Slate			1215	1270			
Sand			1270	1286	Gas	1270-1286	
Total Depth				1286			

*Note: Record of well from surface to 786 Destroyed by fire when rig burned down.*



*[Handwritten signature]*

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

None

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JAN 21 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Original T.D. (Drilled in 1945)				1286'	
Maxon	Light Tan	Soft	1286'	1305'	Gas zone hit @ approximately 1295' Open Flow - 822 mcf/d

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APR 10 2014

(Attach separate sheets as necessary)

Columbia Natural Resources

Well Operator

By: Joseph E. Campbell

Date: Jan. 15, 1988

1227

Note: Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



IV-35 (Rev 8-81)

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State of West Virginia Department of Mines Oil and Gas Division

Date 1-11-88 Operator's Well No. 5409-DD Farm Central Trust Co. API No. 47 - 059 - 0077-DD

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal / (If "Gas," Production X / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 771' Watershed Upper Honey Branch of Jennie Creek District: Harvey County Mingo Quadrangle Wilsondale

COMPANY Columbia Natural Resources ADDRESS P. O. Box 1273, Charleston, WV 25325 DESIGNATED AGENT Joseph E. Campbell ADDRESS P. O. Box 1273, Charleston, WV 25325 SURFACE OWNER 1st National Bank of Bluefield ADDRESS MINERAL RIGHTS OWNER Same ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Arthur St. Clair ADDRESS Brenton, WV PERMIT ISSUED 8-6-87 DRILLING COMMENCED 9-30-87 DRILLING COMPLETED 9-30-87

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cond., 12-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3600 feet Depth of completed well 1305 feet Rotary / Cable Tools Water strata depth: Fresh feet; Salt feet Coal seam depths: Is coal being mined in the area?

OPEN FLOW DATA Producing formation Maxon Pay zone depth 1305 feet Gas: Initial open flow 890 Mcf/d Oil: Initial open flow Final open flow 822 Mcf/d Final open flow Time of open flow between initial and final tests 12 hours Static rock pressure 62 psig (surface measurement) after 60 hours shut in (If applicable due to multiple completion--)

RECEIVED Office of Oil and Gas APR 10 2014 Department of Environmental Protection

0077-00

1) Date: 4/3/2014  
 2) Operator's Well Number 805409  
 3) API Well No.: 47 - 059 - 00077-DD

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>First Century Bank, Inc.</u>	Name <u>Consol of KY Inc.</u>
Address <u>P. O. Box 1559</u>	Address <u>P. O. Box 76</u>
<u>Bluefield, WV 24701</u>	<u>Naugatuck, WV 25685</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>First Century Bank, Inc.</u>
	Address <u>P. O. Box 1559</u>
	<u>Bluefield, WV 24701</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Jeremy James</u>	(c) Coal Lessee with Declaration
Address <u>P. O. Box 147</u>	Name <u>ICG Eastern, LLC</u>
<u>Ona, WV 25545</u>	Address <u>PO Box 1019 RT 82</u>
Telephone <u>(304) 951-2596</u>	<u>West Cowen, WV 26206</u>

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

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APR 10 2014

Well Operator CHESAPEAKE APPALACHIA, L.L.C.  
 By: *David Stumbo* **David Stumbo**  
 Its: Production Superintendent, Appalachia South - Northern Division  
 Address P. O. Box 18496  
Oklahoma City, OK 73154-0496  
 Telephone (606) 298-3400

Subscribed and sworn before me this 4th day of April 2014  
 \_\_\_\_\_  
 Notary Public

My Commission Expires 5/24/2017

SURFACE OWNER WAIVER

4705900077

Operator's Well Number API 805409 47-059-00077-DD

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
2) The soil erosion and sediment control plan is not adequate or effective;
3) Damage would occur to publicly owned lands or resources;
4) The proposed well work fails to protect fresh water sources or supplies;
5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON ETC.

FOR EXECUTION BY A CORPORATION,

Handwritten signature and date for First Century Bank Inc, Successor Trustee for Henry Clasterman Estate, Wayne L. Blevins, VP - Trust Officer, dated 4/10/14.

Signature Date Name By Its

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APR 11 2014

WV Department of Environmental Protection

7011 0470 0002 7116 9451

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Restricted Delivery Fee (Endorsement Required)	
Total Postage	

Sent To: **First Century Bank, Inc.**  
P. O. Box 1559  
Bluefield, WV 24701  
(P&A Notification: Well 805409)

Street, Apt. No. or PO Box No.  
City, State, Z

PS Form 3800, August 2006 See Reverse for Instructions

*PRESTONSBURG KY*  
*APR 04 2014*  
*USPS - 41653*

5144706  
100.00

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage	

Sent To: **Consol of KY, Inc.**  
P. O. Box 76  
Naugatuck, WV 25685  
(P&A Notification: Well 805409)

Street, Apt. No. or PO Box No.  
City, State, Zil

PS Form 3800, August 2006 See Reverse for Instructions

*PRESTONSBURG KY*  
*APR 04 2014*  
*USPS - 41653*

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Restricted Delivery Fee (Endorsement Required)	
Total Postage	

Sent To: **ICG Eastern, LLC**  
P. O. Box 1019 RT 82  
West Cowen, WV 26206  
(P&A Notification: Well 805409)

Street, Apt. No. or PO Box  
City, State,

PS Form 3800, August 2006 See Reverse for Instructions

*PRESTONSBURG KY*  
*APR 04 2014*  
*USPS - 41653*

**SURFACE OWNER WAIVER**

Operator's Well Number 805409

API

47-059-00077-DD P

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**  
**WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name _____	_____
Signature		By <u>Consol of Kentucky Inc.</u>	
		By <u>Jason E. Swann</u>	
		Its <u>Attorney-in-fact</u>	Date <u>4/15/14</u>
		Signature _____	Date _____
			<u>4/15/14</u>

**Received**

**APR 17 2014**

Office of Oil and Gas  
WV Dept. of Environmental Protection

WW-4B  
Reverse

API No. 47-059-00077-DD P

Farm Name Central Trust Co 13

Well No. 805409

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator X / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 4/15/14

  
By: Jason E. Swann  
Its: Attorney-in-Fact

**Received**

APR 17 2014

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Chesapeake Appalachia, L.L.C. OP Code 494477557

Watershed Upper Honey Branch of Jennie Creek Quadrangle Wilsondale, WV 7.5'

Elevation 1132' County Mingo District Kermit

Description of anticipated Pit Waste: Plugging returns

Will a synthetic liner be used in the pit? Yes 20 MIL.

Proposed Disposal Method For Treated Pit Wastes:

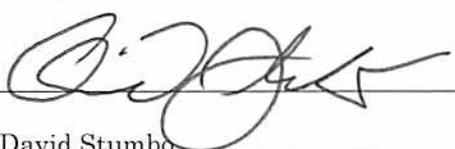
- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain \_\_\_\_\_)
- Swabbing
- Plugging

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on December 31, 1999, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature  Office of Oil and Gas  
APR 10 2014

Company Official (Typed Name) David Stumbo  
Company Official Title Production Superintendent, Appalachian South BU, Northern Division  
WV Department of Environmental Protection

Subscribed and sworn before me this 4th day of April, 20 14

 Notary Public

My commission expires 5/24/2017

LEGEND

- Property Boundary
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch
- Rock
- North
- Buildings
- Water wells
- Drill site
- Diversion
- Spring
- Wet Spot
- Drain Pipe with size in inches
- Waterway
- Cross Drain
- Artificial Filter Strip
- Pit: cut walls
- Pit: compacted fill walls
- Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 1/8 Prevegetation pH \_\_\_\_\_

Lime \_\_\_\_\_ Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer (10-20-20 or equivalent) \_\_\_\_\_ lbs/acre (500 lbs minimum)

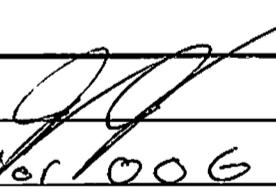
Mulch 250 lb \_\_\_\_\_ Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
Cereal Rye	17.5 / 1/8		
_____	_____	_____	_____
_____	_____	_____	_____

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Title: inspector 006 Date: 4-9-14

Field Reviewed?  Yes  No

**Drawing Legend**

Property Boundary	--- ---	Diversion	~~~~~
Road (805409)	==	Spring	○
Existing Fence	-X-X-	Wet Spot	⊖
Planned Fence	- - -	Edding Drain Pipe with size in inches	⊖(12)
Stream	~~~~~	Waterway	~~~~~
Open Ditch	~~~~~	Cross Drain	~~~~~
Rock	⊖	Artificial Filter Strip	~~~~~
North	⊖	Pit-cut walls	⊖
Buildings	⊖	Pit: Compacted fill walls	⊖
Water Wells	⊖	Arrow for Land Application of Pit Waste	→
Drill Site	⊖	Temporary berm	~~~~~
Road (Existing)	---	Brush Barrier	~~~~~
	---	Straw Bales	~~~~~

**General Notes**

THIS DRAWING IS A SCHEMATIC REPRESENTATION OF THE PROPOSED WELL SITE AND ACCESS ROAD. PROPOSED STRUCTURES SUCH AS WELL SITE, DRILLING PIT, ROADWAYS, CULVERTS, SEDIMENT BARRIERS ETC. ARE SHOWN IN APPROXIMATE PRE-PLANNING CONFIGURATIONS.

TREES AND SLASH WILL BE CLEARED AS NECESSARY BEFORE ANY PROPOSED ROAD, SITE, OR PIPELINE CONSTRUCTION BEGINS. IF SUFFICIENT RESIDUE MATERIALS ARE AVAILABLE FROM CLEARING, THIS MATERIAL WILL BE WINDROWED BELOW THE ANTICIPATED FILL OUTSLOPES TO INTERCEPT AND RETAIN SEDIMENT FROM DISTURBED AREAS. ALL MARKETABLE TIMBER WILL BE CUT AND STACKED IN AREAS ADJACENT TO OPERATIONS.

ALL CULVERT PIPES WILL BE A MINIMUM OF 12" IN DIAMETER. ALL CULVERT PIPES INSTALLED WILL BE ACCOMPANIED BY AN ENTRANCE SUMP WITH DIMENSIONS NO LESS THAN 3 FT. (WIDTH) X 3 FT. (LENGTH) X 4 FT. (DEPTH). CULVERTS WILL BE INSTALLED AT AN ANGLE TO ENSURE PROPER FLOW. THE OUT FALL OF CULVERTS WILL BE PROTECTED FROM EROSION AND SEDIMENTATION USING LARGE ROCKS OR OTHER SEDIMENT CONTROLS DEEMED NECESSARY IN THE PREVENTION OF EROSION AND SEDIMENTATION. STORM WATER FROM THE DITCHES TO THE CULVERTS WILL BE DIRECTED TO STABLE NATURAL VEGETATIVE AREAS WHERE CULVERTS ARE NOT PRACTICAL. OPERATOR WILL HAVE OTHER SEDIMENT CONTROL IN PLACE TO MINIMIZE EROSION AND SEDIMENTATION.

TEMPORARY SEEDING: SEE ATTACHMENT #1.

CROSS DRAINS, BROAD BASED DIPS, WATER BARS, AND DIVERSION DITCHES WILL BE EMPLOYED DURING THE CONSTRUCTION PHASE. THESE EROSION AND SEDIMENT CONTROL STRUCTURES WILL BE USED TO CONTROL EROSION AND SEDIMENTATION DURING THE CONSTRUCTION PHASE WHERE APPLICABLE AND AREAS THAT WILL ALLOW. THESE STRUCTURES WILL BE CONSIDERED PERMANENT AND USED AS SUCH.

AFTER THE DRILLING AND COMPLETION PROCESS, CROSS DRAINS, BROAD BASED DIPS, WATER BARS AND DIVERSION DITCHES WILL BE AN INTEGRAL PART OF THIS RECLAMATION PROCESS AND SHALL BE INSTALLED AND SPACED IN ACCORDANCE WITH THE AS-BUILT ROADWAY SLOPES AND TABLE 11-4 OF THE EROSION SEDIMENT CONTROL FIELD MANUAL.

PERMANENT SEEDING: SEE ATTACHMENT #1.

TEMPORARY SEEDING TO BE APPLIED TO ALL SLOPES AFTER CONSTRUCTION.



**CONSTRUCTION & RECLAMATION SITE PLAN  
PROPOSED PLUG AND ABANDONMENT  
WELL 805409**

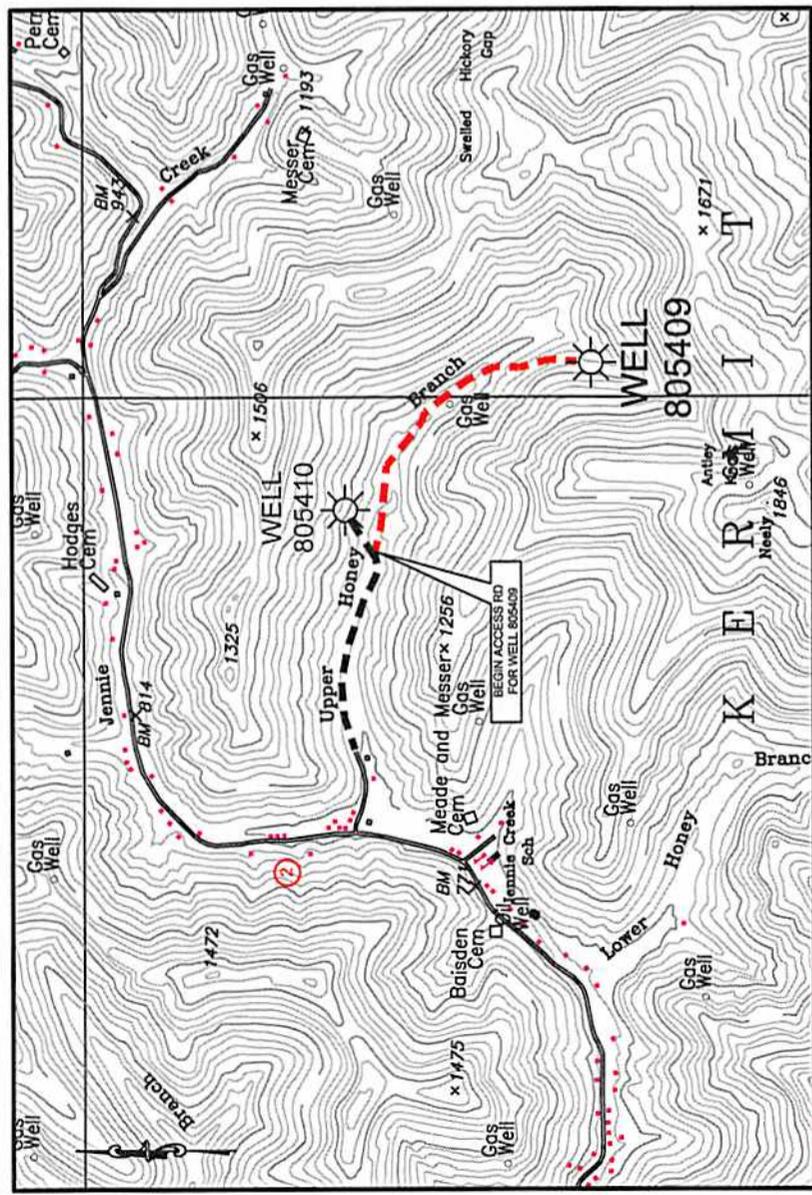
Located Near The Community Of Spaulding  
In The Kermit District Of Mingo county  
West Virginia.

DATE: 3-28-14  
DRAWN BY: JDH

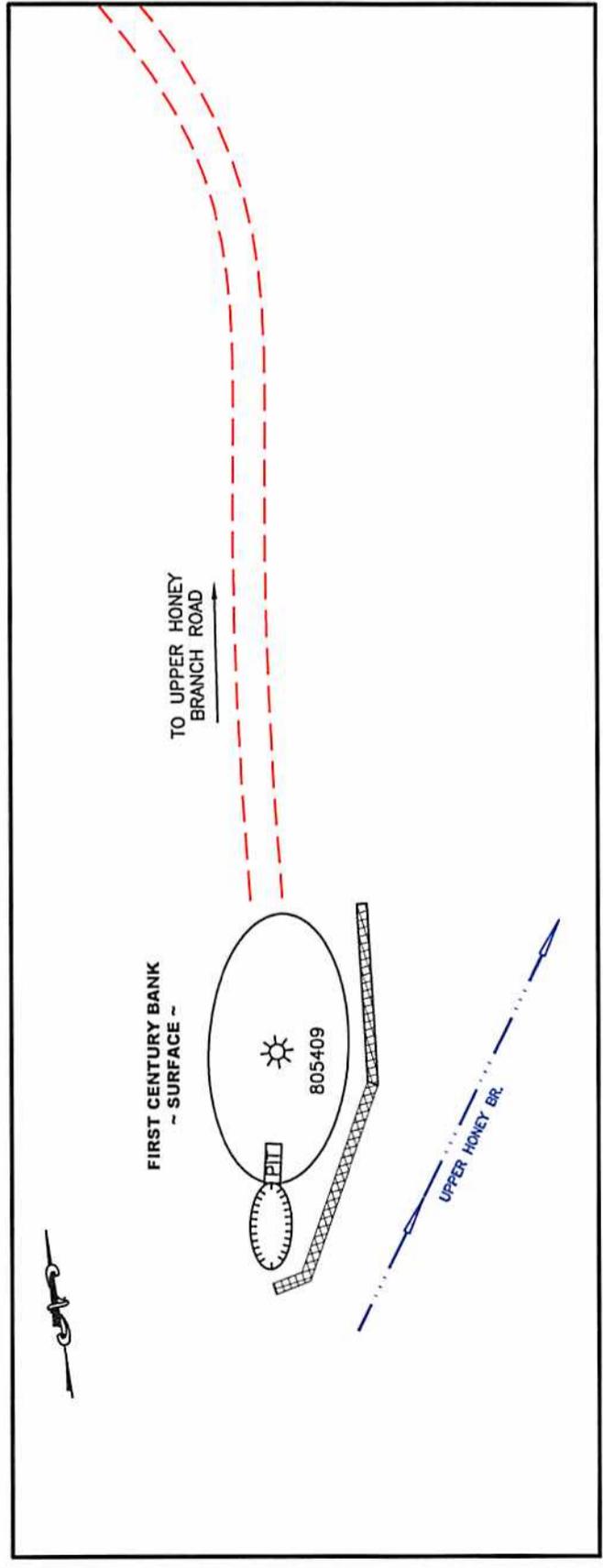
SCALE: Not To Scale  
805409 P&A Rec Plan.dwg

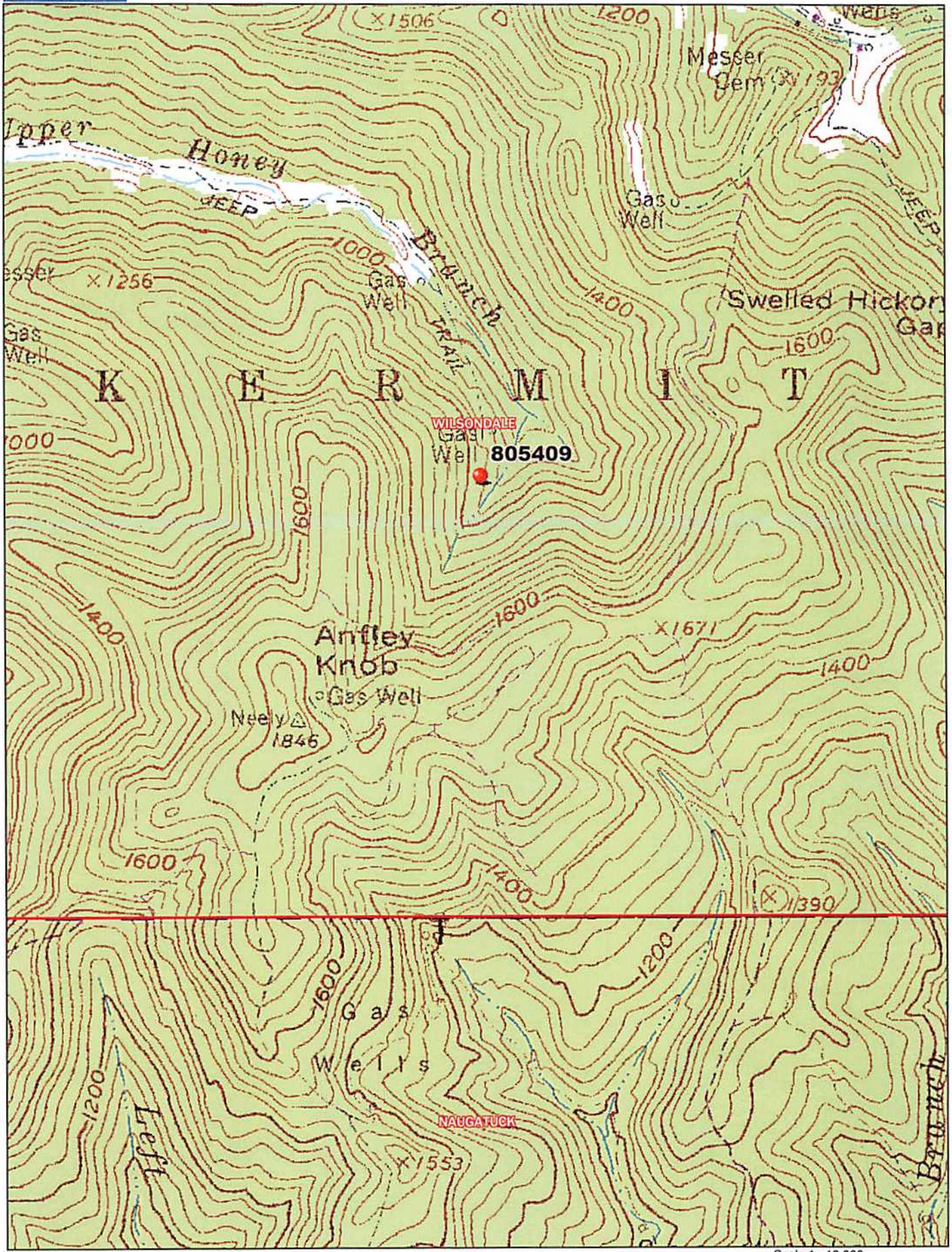
RECEIVED  
Office of Oil and Gas  
APR 10 2014

**NOTE: SURFACE OWNERS SHOWN ON THIS DRAWING ARE TAKEN FROM LOCAL COUNTY ASSESSORS TAX MAPS AND SHOULD NOT BE RELIED UPON FOR SECURING RIGHTS OF WAY OR DAMAGE NEGOTIATIONS.**

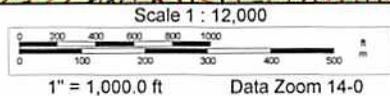


WILSONDALE WV 7.5' ACCESS ROAD DETAIL





Data use subject to license.  
 © DeLorme. XMap® 7.  
 www.delorme.com



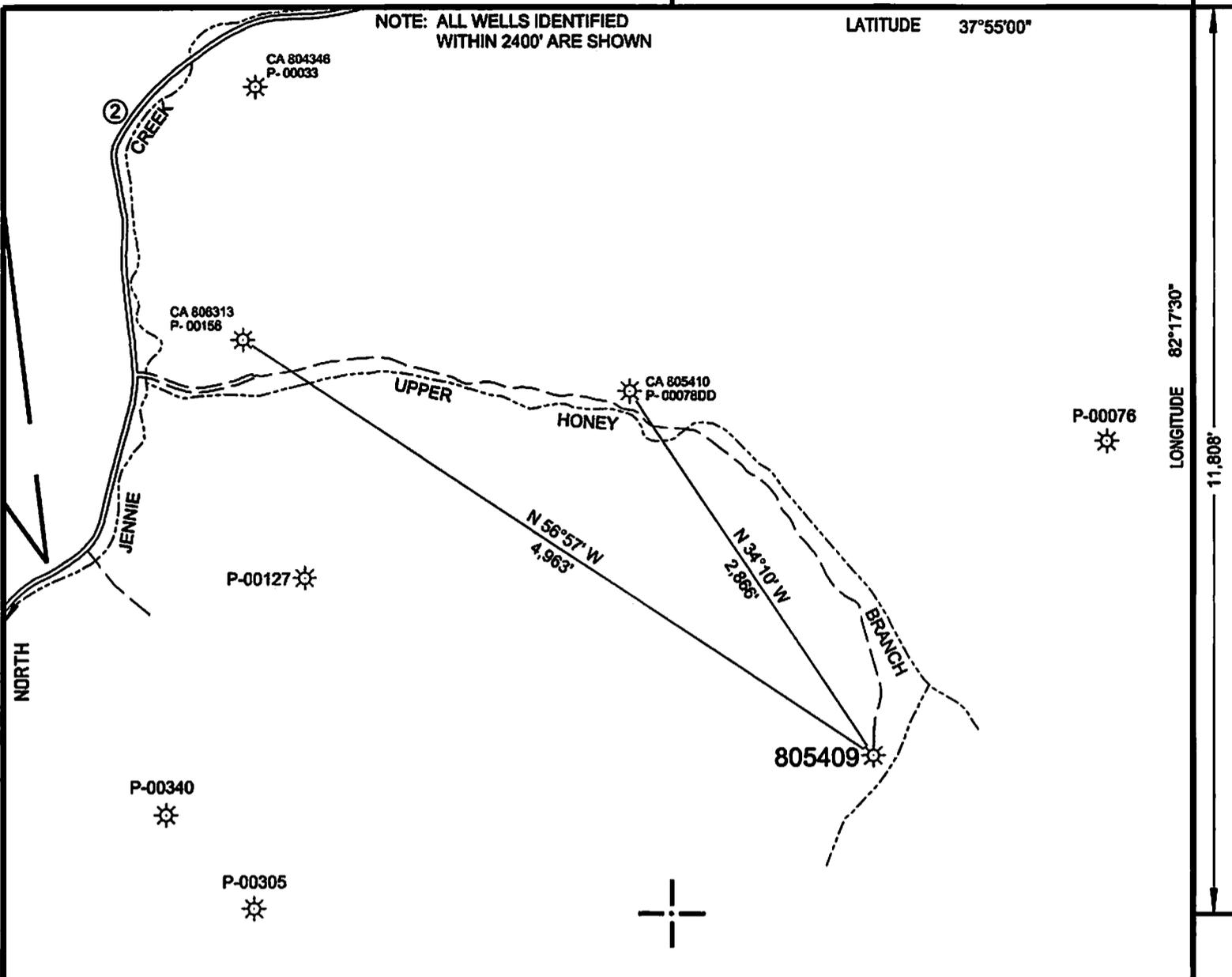
NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

LATITUDE 37°55'00"

6,881'

LONGITUDE 82°17'30"

11,808'



NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

WELL SITE	
STATE PLANE WV SOUTH ZONE NAD 1927 N - 324,668.854 : E - 1,620,352.236	
LATITUDE: (N) 37.8842417° LONGITUDE: (W) 82.3154989°	
UTM NAD83 17 - 84W TO 78W, METERS N - 4,193,797.653 : E - 384,330.863	

( + ) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 805409P&A.DGN  
 DRAWING NO. 805409P&A  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION MAPPING GRADE GPS

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

(SIGNED) *Paul E. Miller*  
 R.P.E. \_\_\_\_\_ L.L.S. 647



STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OIL AND GAS DIVISION



DATE MARCH 25, 2014  
 OPERATOR'S WELL NO. 805409  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 1,132' WATER SHED UPPER HONEY BRANCH OF JENNIE CREEK  
 DISTRICT KERMIT COUNTY MINGO  
 QUADRANGLE WILSONDALE, WV 7.5'

SURFACE OWNER FIRST CENTURY BANK, INC. ACREAGE 6852  
 OIL & GAS ROYALTY OWNER FIRST CENTURY BANK, INC. LEASE ACREAGE 6852  
 LEASE NO. 10031896

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
 STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
 FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON X CLEAN OUT AND REPLUG \_\_\_

TARGET FORMATION \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_

WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT ERIC B. GILLESPIE

ADDRESS P.O. BOX 18496, OKLAHOMA CITY, OK 73154-0496 ADDRESS CHESAPEAKE APPALACHIA, L.L.C. PO BOX 6070, CHARLESTON, WV 25362

FORM WW-6

COUNTY NAME

PERMIT



CERTIFIED MAIL

April 4, 2014

Mr. James Martin  
Division of Environmental Protection  
Office of Oil and Gas - Permitting  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

Dear Mr. Martin:

Chesapeake Appalachia, L.L.C. proposes to plug and abandon Well 805409, API No. 47-059-00077-DD. Please find attached a check in the amount of \$100.00 for the permit fee and the permit applications to plug and abandon.

If you have any questions, please call our Honey Branch office (606) 298-3400 or email [dave.stumbo@chk.com](mailto:dave.stumbo@chk.com).

Sincerely,

A handwritten signature in black ink that reads "David Stumbo" followed by a stylized flourish.

David Stumbo,  
Production Superintendent

Enclosure: Permit Application Package to Plug and Abandon

C: Jeremy James - Inspector  
P. O. Box 147  
Ona, WV 25545

RECEIVED  
Office of Oil and Gas  
APR 10 2014  
WV Department of  
Environmental Protection